

## Information

Recorded water levels in this bulletin are derived from a representative network of water level gages on each lake (see cover map). Providers of these data are the U.S. Department of Commerce, NOAA, National Ocean Service, and Integrated Science Data Management, Department of Fisheries and Oceans, Canada. The Detroit District, Corps of Engineers and Environment Canada derive historic and projected lake levels under the auspices of the Coordinating Committee on Great Lakes Basic Hydraulic and Hydrologic Data.

This bulletin is produced monthly as a public service. Tables of possible storm-induced rises at key locations on the Great Lakes are available on request. The Corps also publishes the "Great Lakes, Connecting Channels and St. Lawrence River Water Levels and Depths," twice monthly, which provides a forecast of depths in the connecting rivers between the Great Lakes and the International Section of the St. Lawrence River. These publications can be obtained free of charge by writing to the address shown on the front cover, or by calling (313) 226-6441. Notices of change of address should include the name of the publication(s). The Internet address <http://www.lre.usace.army.mil/glhh> contains this information on the Internet.

### Great Lakes Basin Hydrology July 2010

Only the Lake Superior basin received below average precipitation in July. With the exception of the Lake Erie basin, all of the Great Lakes have received below average precipitation during the past 12 months. The net supply of water to Lake Superior was below average in July. Lake Michigan-Huron received above average supply, while Lake Erie received below average supply of water. Lake Ontario received near average supply in July. The tables below list July precipitation, water supply and outflow information for each of the Great Lakes.

In comparison with their long-term (1918-2009) averages, the July monthly mean levels of Lakes Superior and Michigan-Huron were both 13 inches below average. Lakes St. Clair, Erie, and Ontario were 4, 2, and 1 inches, respectively, below their July mean averages.

PRECIPITATION (inches)								
BASIN	July				12-Month Comparison			
	2010	Average (1900-2008)	Diff.	% of Average	Last 12 Months	Average (1900-2008)	Diff.	% of Average
Superior	2.75	3.28	-0.53	84	24.42	30.51	-6.09	80
Michigan-Huron	3.71	3.03	0.68	122	30.53	32.44	-1.91	94
Erie	4.33	3.39	0.94	128	35.44	35.40	0.04	100
Ontario	3.56	3.17	0.39	112	33.73	35.71	-1.98	94
Great Lakes	3.52	3.15	0.37	112	30.03	32.64	-2.61	92

LAKE	July WATER SUPPLIES <sup>1</sup> (cfs)		July OUTFLOW <sup>2</sup> (cfs)	
	2010	Average <sup>4</sup> (1900-1999)	2010	Average <sup>3</sup> (1900-1999)
Superior	70,000	131,000	55,000	81,000
Michigan-Huron	196,000	129,000	184,000	196,000
Erie	-2,000	4,000	210,000	210,000
Ontario	25,000	24,000	237,000	261,000

Notes: Values (excluding averages) are based on preliminary computations; cfs denotes cubic feet per second.

<sup>1</sup> Negative water supply denotes evaporation from lake exceeded runoff from local basin.

<sup>2</sup> Does not include diversions.

<sup>3</sup> Niagara and St Lawrence rivers average outflows are based on period of record 1900-1989 and 1900-2005, respectively

<sup>4</sup> Lakes Erie and Ontario average water supplies based on 1900-1989